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(54) THREAD-OR BELT-SHAPED PLASTICALLY DEFORMABLE POLYETHYLENE MATERIAL AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To produce a thread- or belt-shaped plastically deformable polyethylene material capable of attaining a high productivity by using a general-purpose polyethylene as the raw material and the conventional extrusion equipment and to provide its production method.

CONSTITUTION: This plastically deformable polyethy-

lene material is composed of a stretched polyethylene produced by melting and then solidifying a polyethylene having $<3.5\text{dl/g}$ intrinsic viscosity $[\eta]$, e.g. high-density polyethylene or a mixture of polyethylene and another polyolefin, stretching the solidified material so as to give plastic deformation properties thereto and having $\geq 0.25\text{mm}$ thickness of the thickest part. The characteristic of this plastically deformable polyethylene material is its plastic deformation properties represented by $\leq 20^\circ$ recovery angle observed when bent by either angle of 180° or 90° .

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